
Replacement Claims

1. ~~(Amended)~~ A capillary array comprising a plurality of capillaries which include a polymer protective film on the surface thereof and of which first ends are bundled and of which second ends are spread; a light detection portion in which the capillaries are juxtaposed and are aligned substantially on a plane and the polymer protective films therein are removed; a head which holds the spread second ends of the capillaries integrally, and an electrode which is built into the head, wherein the electrode is electrically connected to the head and is immersed in a sample solution.

A 2. ~~(Amended)~~ A capillary array in which first ends of a plurality of capillaries with a protective coat are bundled and end portions thereof are aligned in flat so as to form a buffer solution injection port; second ends of the plurality of capillaries penetrate through a capillary head with a built-in electrode and are inserted into metal tubes which are connected electrically to the built-in electrode, a light detection portion is formed at an intermediate portion of the capillary array wherein the protective coat of the capillaries is removed, the protective coat removed capillaries are sandwiched between first and second support substrates, a window which permits emission of fluorescence is formed on one of the first and second support substrates and a black coating is formed on the other of the first and second support substrates at a position corresponding to the fluorescence emission permitting window on the one support substrate.

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